



## Smart Polymeric Devices

Guest Editor:

**Prof. Dr. Gareth Monkman**

Ostbayerische Technische  
Hochschule Elektro- und  
Informationstechnik,  
Regensburg, Germany

Deadline for manuscript  
submissions:

**closed (25 May 2021)**

### Message from the Guest Editor

The birth of smart polymers possibly dates back to two patents filed in the 1940s, which concerned the combination of dimethylsiloxane and boric acid (Boron–organo–silicon oxide). This resulted in a rheopectic material that was initially marketed as a toy called “silly putty”. Although it is not really a smart material in this basic form, it was found, many years later, to exhibit extremely interesting properties when mixed with ferromagnetic or ferroelectric particles. In the meantime, the majority of smart polymers that have emerged over the past two decades are also silicone-based, particularly poly(dimethylsiloxane). During this time, there has also been a surge in interest in the area of smart polymers and smart polymeric devices. Whether thermally, electrically, or magnetically controlled, such elements are integral in many actuators, dampers, and shape memory devices.

This Special Issue on “smart polymeric devices” is intended to highlight a range of devices based on the use of such materials.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien  
und Polymertechnologie,  
University of Potsdam, 14476  
Potsdam-Golm, Germany

## Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.0.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/polymers  
polymers@mdpi.com  
X@Polymers\_MDPI